

ABSTRACT OF THE DISCLOSURE

A microplate liquid handling system capable of automatically performing both longitudinal collective suction/discharge and lateral collective suction/discharge on a single microplate. The microplate liquid handling system has a main body equipped with a moving device, a rotating mechanism, a dispensing mechanism, and a stage. Connected to the moving device is the dispensing mechanism for performing dispensing on wells in a microplate on the stage through the rotating mechanism. A plurality of cylinders are arranged in a row in the dispensing mechanism. The dispensing mechanism is capable of moving forwards and backwards and to the right and left with respect to the main body, and is rotatable about a vertically directed rotation axis, making it possible to change the direction of the cylinder array from origin position to 90 degrees position and vice versa.